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TITLE : MANUFACTURE OF POSITIVE ELECTRODE ACTIVE MATERIAL FOR LITHIUM SECONDARY BATTERY

ABSTRACT : PROBLEM TO BE SOLVED: To provide a manufacturing method of a positive electrode active material capable of obtaining a high-capacity and high-voltage lithium secondary battery.

SOLUTION: A mixture of first oxide powder expressed by the composition formula LiANiPCoQMnRO_2 , (where $0.9 \leq A \leq 1.1$, $0.5 < P \leq 1.0$, $0 \leq Q < 0.5$, $0 \leq R \leq 0.3$, $P+Q+R=1$), and second oxide powder expressed by the composition formula LiBNiSCoTMnUO_2 , (where $0.9 \leq B \leq 1.1$, $0 \leq S < 0.5$, $0.5 < T \leq 1.0$, $0 \leq U \leq 0.3$, $S+T+U=1$), is baked to manufacture a sintered body. The sintered body is pulverized to manufacture a positive electrode active material constituted of first active material powder and second active material powder stuck with a third oxide expressed by the composition formula LiCNiXCoYMnZO_2 , (where $0.9 \leq C \leq 1.1$, $S < X < P$, $Q < Y < T$, $0 \leq Z \leq 0.3$, $X+Y+Z=1$), to the grain surfaces of the first oxide powder and the second oxide powder.

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